

DARYL LIM

AI Generalist

Prompt and context engineering · Agent design and evaluation · Systems analysis

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PROFILE

Written communication is the core skill here, and in applied AI it turns out to be the load-bearing one. Prompt and context engineering is largely technical writing for a reader that takes every word literally, where the real work is finding the ambiguity in your own instructions before the system finds it for you. The past year has been spent on exactly that problem: daily hands-on use of large language model tooling, agent frameworks, and the Model Context Protocol for connecting models to live data and applications.

Before that, four years in the Singapore Armed Forces as a Military Intelligence Expert (SIGINT), working high-volume signal data where the task was separating meaning from noise, quickly and correctly. That grounding in pattern recognition and disciplined classification underpins everything since, including recent technical field work commissioning airflow control systems in laboratory cleanrooms, where a misread instrument carries real safety consequences.

Most interested in work at the boundary between people and systems: prompt and context engineering, agent design and evaluation, systems analysis, and translating between technical implementation and the people who have to use or approve it. Comfortable working alongside engineers and reading code, but not seeking a role where shipping production software is the main deliverable.

CORE SKILLS

Language and communication: Precise written English for technical and non-technical readers, documentation and specification writing, editing and rewriting for clarity, structured explanation of complex systems, fluent written and spoken Mandarin, high-accuracy transcription.

AI systems and prompt engineering: Prompt and context design, agent and tool-use workflow construction, Model Context Protocol integrations, evaluation of model output quality and failure modes, practical judgement about where current tooling breaks.

Analysis: Signal and pattern analysis, anomaly detection, rule and heuristic development, structured investigation, requirements gathering, systems mapping.

Technical literacy: Python (reading, modifying and running scripts for data processing), Microsoft Excel (formulas, filtering, pivot tables), workflow automation, ACMV and building control systems.

Working practice: Confidentiality and information-handling discipline, documentation and record integrity, cross-team coordination on safety-critical work, systematic task management.

WORK EXPERIENCE

Junior Field Technician, Cleanroom and ACMV Systems

Joule Air Pte Ltd, Singapore | March 2026 to June 2026

Three-month contract supporting airflow control and ventilation systems across laboratory and cleanroom facilities, including containment areas handling biological material.

- Commissioned, tested and validated Venturi air valves governing supply and exhaust airflow in laboratory rooms, verifying measured flow rates against design setpoints before sign-off.
- Worked to room pressure cascade requirements, confirming that pressure relationships between adjacent spaces held under load, the mechanism that keeps airborne contaminants inside containment.
- Recorded airflow, temperature and differential pressure readings using calibrated instruments, logged results against specification, and escalated deviations rather than accepting borderline figures.
- Applied practical thermodynamics and psychrometrics to fault-finding: how heat load, air change rate and supply air temperature interact to hold a room at specification.
- Observed biosafety and cleanroom protocol throughout, including gowning discipline, controlled entry procedures, and awareness of containment levels in shared work areas.
- Coordinated with engineers, contractors and facility staff on safety-critical commissioning, where a task is not complete until someone else has verified it and the documentation reflects what was actually done.

Warehouse Associate

Amazon, Singapore | December 2025 to February 2026

- Order picking and packing in a high-throughput grocery fulfilment operation, working to rate targets with accuracy checks at each stage.
- Manual handling of items up to 25kg under standard safety procedure.

Administrative Assistant

Republic Polytechnic, Singapore | November 2019 to January 2020

- Data entry and record maintenance across institutional systems, accountable for the accuracy of the underlying records.
- Document processing, filing and retrieval, alongside email correspondence with staff and external parties.
- Day-to-day office support requiring sustained attention to detail.

System Specialist (Military Intelligence Expert, SIGINT)

Singapore Armed Forces | 2014 to 2018

- Analysed signals intelligence material, identifying patterns, irregularities and items of interest within large volumes of routine traffic.
- Produced high-accuracy audio transcription under operational time constraints, where a single error propagates downstream into assessments other people act on.
- Processed and structured raw collected data into formats usable for analysis and reporting.
- Maintained strict confidentiality and security protocol across four years of service, handling classified material under formal information-handling rules.
- Documented findings systematically so that work stayed auditable and could be picked up by another analyst without loss of context.

EDUCATION AND DEVELOPMENT

Applied artificial intelligence, self-directed | 2025 to present

Practical study of large language model capabilities and failure modes, agent and tool-use architectures, prompt and context design, and the Model Context Protocol. Built through daily use on real problems rather than coursework. Written up at [ryl.bio](#).

GCE 'A' Level · Catholic Junior College, Singapore | 2012 to 2013

GCE 'O' Level · Chung Cheng High School (Yishun), Singapore | 2008 to 2011

ADDITIONAL INFORMATION

Languages: English (full professional proficiency). Mandarin Chinese (fluent, written and spoken). Malay (basic).

Work authorisation: Singapore citizen. Eligible to work in Singapore without sponsorship. **Availability:** Open to remote, hybrid and onsite roles, and to international relocation.

Neurodiversity: Diagnosed with Autism Spectrum Disorder (Level 1) and ADHD. In practice this means a high tolerance for detailed, repetitive analytical work, strong pattern recognition, and a habit of noticing inconsistencies that others read past. Disclosed openly because it is part of how I work well.

Interests: Philosophy and theology, systems thinking, and the practical limits of current AI tooling.